

Title (en)
ELECTRONIC DEVICES CONTAINING ORGANIC SEMI-CONDUCTORS

Title (de)
ELEKTRONISCHE VORRICHTUNGEN ENTHALTEND ORGANISCHE HALBLEITER

Title (fr)
DISPOSITIFS ELECTRIQUES CONTENANT DES SEMICONDUCTEURS ORGANIQUES

Publication
EP 1794218 A1 20070613 (DE)

Application
EP 05784377 A 20050920

Priority
• EP 2005010112 W 20050920
• EP 04023475 A 20041001
• EP 05784377 A 20050920

Abstract (en)
[origin: WO2006037458A1] The invention relates to electronic devices containing organic semi-conductors, whereby the halogen content is less than 20 ppm. As a result, the service life and the efficiency of the corresponding electronic devices is increased, and said materials are more suitable for the use in organic electronic devices than materials having a higher halogen content. The invention also relates to corresponding organic semi-conductors and a method for the production thereof.

IPC 8 full level
C08J 7/00 (2006.01); **C08G 61/00** (2006.01); **C08G 61/12** (2006.01); **C08G 73/00** (2006.01); **H01L 51/00** (2006.01); **H01L 51/30** (2006.01)

CPC (source: EP US)
C08G 61/12 (2013.01 - EP US); **C08G 61/126** (2013.01 - EP US); **C08G 73/00** (2013.01 - EP US); **H10K 71/311** (2023.02 - EP US); **H10K 85/111** (2023.02 - EP US); **H10K 85/615** (2023.02 - EP US); **H10K 71/30** (2023.02 - EP US); **H10K 85/1135** (2023.02 - EP US); **H10K 85/114** (2023.02 - EP US); **H10K 85/115** (2023.02 - EP US); **H10K 85/324** (2023.02 - EP US); **H10K 85/631** (2023.02 - EP US); **Y02E 10/549** (2013.01 - EP US)

Citation (search report)
See references of WO 2006037458A1

Citation (third parties)
Third party :
• WO 2004055129 A1 20040701 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
• WO 2004072205 A2 20040826 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
• WO 2004055921 A2 20040701 - PHILIPS INTELLECTUAL PROPERTY [DE], et al
• DIJKEN VAN A. ET AL: "CARBAZOLE COMPOUNDS AS HOST MATERIALS FOR TRIPLET EMITTERS IN ORGANIC LIGHT-EMITTING DIODES: POLYMER HOSTS FOR HIGH-EFFICIENCY LIGHT-EMITTING DIODES.", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 126, no. 24, 1 June 2004 (2004-06-01), pages 7718 - 7727, XP055067498
• BRUNNER K. ET AL: "CARBAZOLE COMPOUNDS AS HOST MATERIALS FOR TRIPLET EMITTERS IN ORGANIC LIGHT-EMITTING DIODES: TUNING THE HOMO LEVEL WITHOUT INFLUENCING THE TRIPLET ENERGY IN SMALL MOLECULES.", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 126, no. 19, 1 May 2004 (2004-05-01), pages 6035 - 6042, XP055011159
• MA D. ET AL: "BRIGHT ELECTROLUMINESCENCE FROM A CONJUGATED DENDRIMER.", APPLIED PHYSICS LETTERS, vol. 81, no. 12, 16 September 2002 (2002-09-16), pages 2285 - 2287, XP001142082

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006037458 A1 20060413; EP 1794218 A1 20070613; EP 1794218 B1 20200513; JP 2008516421 A 20080515; JP 2015092571 A 20150514; JP 2016192555 A 20161110; JP 5992133 B2 20160914; JP 6271643 B2 20180131; TW 200633280 A 20060916; US 2008113468 A1 20080515; US 9150687 B2 20151006

DOCDB simple family (application)
EP 2005010112 W 20050920; EP 05784377 A 20050920; JP 2007533903 A 20050920; JP 2014224714 A 20141104; JP 2016110258 A 20160601; TW 94132702 A 20050921; US 66447305 A 20050920